Creative Enzymes®

Leukotriene A4 Hydrolase from Human, Recombinant

Cat. No. NATE-0419

Lot. No. (See product label)

Introduction

Description	Leukotriene A4 Hydrolase human (LTA4H) is a bifunctional zinc metalloenzyme that converts LTA4 into Leukotriene B4, and also demonstrates aminopeptidase activity. Leukotriene B4 is a lipid chemoattractant that plays critical roles in inflammaton, immune responses, host defenses against infections, and lipid homeostasis. Inhibition of LTA4H in a mouse model decreases LTB4 in the airways and attenuates airway inflammation and airway hyperreactivity through modulation of T cell and dendritic cell function.
Applications	Leukotriene A4 Hydrolase human (LTA4H) is a drug target for anti-inflammation, and for cancer prevention and therapy. It is also suitable for screening inhibitors of Leukotriene B4 synthesis. LTA4H is used to study allergic asthma and airway hyperresponsiveness
Synonyms	leukotriene-A4 hydrolase; LTA-4 hydrolase; LTA4; LTA4 hydrolase; LTA4H; leukotriene A4 hydrolase; EC 3.3.2.6; 90119-07-6

Product Information

Species	Human
Source	E. coli
Form	Supplied as a solution in 100mM Tris, pH 8.0, containing 20% glycerol and 100mM potassium chloride.
EC Number	EC 3.3.2.6
CAS No.	90119-07-6
Molecular Weight	mol wt ~69 kDa
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Eicosanoid Synthesis, organism-specific biosystem; Leukotriene synthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem
Function	aminopeptidase activity; binding; epoxide hydrolase activity; epoxide hydrolase activity; leukotriene-A4 hydrolase activity; leukotriene-A4 hydrolase activity; metal ion binding; metallopeptidase activity; peptidase activity; zinc ion binding

Storage and Shipping Information

Storage	−70°C